



SUBMARINE
SUB ELECTRICAL/ELECTRONIC
(2ES)
Checklist

UPDATED October 2015

SAFETY REVIEW ITEMS - SUB ELECTRICAL/ELECTRONIC

A. ELECTRICAL/ELECTRONIC SAFETY PRACTICES

1. (A1A0) Is portable electrical equipment, both government and personally owned, including ships entertainment components, coffee pots, portable extension lights, etc. being electrically safety checked in accordance with PMS?

REF: <HTTP://navalforms.daps.dla.mil/web/public/forms>

NSTM 300 2.7.4.7

OPNAVINST 5100.19E B0702 e (2)

Obtain tags from web site:

Safety Tag NSN 0116LF9854300

MIP 3000/029

C R NA UA PF

☐ Repeat

☐ Significant

☐ PMS

2. (A1A6) Bunk lighting and wiring, are there any electrical or electronic shock hazards in personal bunk?

REF: COMSUBLANT/COMSUBPACINST 5400.49 Article 4308

OPNAVINST 5100.19E D0503 v.

C R NA UA PF

☐ Repeat

☐ Significant

☐ PMS

3. (A1A7) Is the Submersible pump electrically safety checked? Is it properly grounded, are cables & connections in good repair?

REF: MIP 3000/029 MRC Q-1R (portable)

MIP 3000/029 MRC S-1R (permanently mounted)

C R NA UA PF

☐ Repeat

☐ Significant

☐ PMS

4. (A1A8) Do ship's personnel use rubber gloves when operating the submersible pump?

REF: NSTM 300 2.7.1.1.A

C R NA UA PF

☐ Repeat

☐ Significant

☐ PMS

5. (K1E0) Miscellaneous electrical deficiencies. Are there wires pulled form stuffing tubes, wires not properly dead ended, lights removed from mount with out a temporary ground wire, or is the splash proof cover not properly closed on electrical panels.

REF: Dead ended cables NSTM 300-4.6.9

Electrical Panel Covers NSTM 300-4.8.1

Stuffing tubes NSTM 300-4.2.3.1.2

C R NA UA PF

☐ Repeat

☐ Significant

☐ PMS

B. SAFETY TOOLS AND EQUIPMENT

6. (B1B1) Are rubber gloves free of damage (cracks, tears, and holes)?

REF: NSTM 300 Appendix I.1.2

MIP 3000/029 A-10R

OPNAVINST 5100.19E B0706b.

C R NA UA PF

☐ Repeat

☐ Significant

☐ PMS

7. (B1C0) Are rubber gloves stowed properly?

REF: MIP 3000/029 A-10R

OPNAVINST 5100.19E B0706b.

C R NA UA PF

☐ Repeat

☐ Significant

☐ PMS

C. ELECTRONIC SAFETY

8. (B1G0) Has the safety shorting probe been properly modified per MIP?

REF: NSN 5305-00-543-5733 (1/4"X20 nylon screw)

MIP 3000/029 S-10R

C R NA UA PF

☐ Repeat

☐ Significant

☐ PMS

D. NAVIAGTION LIGHTING PANEL N-1

9. (B1H0) Have associated shock hazards been eliminated on the N-1 panel? (All interlocks, insulator screws, insulator bushings and shock hazard warning plate installed)

REF: N-1 A&I SSN N3542/ TRID T0181/ SSN V0051

MIP 4221/011 S-1 688/21/774 Class's

MIP 4221/012 S-1 726 Class

New Breaker NSN 5925-01-576-8473

C R NA UA PF
☐ Repeat
☐ Significant
☐ PMS

E. FHL-14G TYPE FUSEHOLDER

10. (B1I0) Are the FHL-14g type fuse holder line side test points sealed with a non-hardening water repellant sealer?

REF: COMSUBPAC A&I N-983 and P-925

COMSUBLANT A&I B-955 and N-1207

C R NA UA PF
☐ Repeat
☐ Significant
☐ PMS

F. ELECTRONIC HAZARD SIGNS

11. (B3B0) Is a RF radiation hazard sign posted at the bottom of the ladder leading to the sail area?

REF: NSN 7690-01-377-5895 (5")

NSTM 400 400-3.4.10.6

NSN 7690-01-377-5082 (12")

C R NA UA PF
☐ Repeat
☐ Significant
☐ PMS

G. MULTIPLE POWER SOURCE PLACARDS

12. (B3B1) Is there a multiple power source placard with sources listed posted on applicable equipment (MBT, ABT, controllers, etc.)? (NSN 0016-LF-047-0155)

REF: 345-6399091, SHEET 15, FRAME 3, ITEM 2

NAVSEA 092-018-2010 DGOS

NAVSEA DWG ELECTRICAL LABEL PLATES PROPULSION PLANT

Section 9280-3 (Hull Designation and Markings)

C R NA UA PF
☐ Repeat
☐ Significant
☐ PMS

H. PERSONAL COMPUTERS

13. (C3A0) Are only approved multi-outlet power strips (surge suppressors) in use? (Brooks Power Systems Model Z6-6 (2P), HFS INC, DSK Inc. Model 5000, EFI Electronics Corp. Models MPS 453 EFI-120A and MPS-6, IPT Model Navy Controller V)

REF: MIP 3000/29 A-11R
NSTM 300 300-2.7.3.5.d

C R NA UA PF
☐ Repeat
☐ Significant
☐ PMS

I. FINGER GUARDS

14. (D0A0) Are periscope finger guards installed, and of the correct material? (NA for 774 Class)

REF: NAVSEA DWG 4674891 (726 Class)
NAVSEA DWG 6640219 Type 18 (688 Class)
NAVSEA DWG 5489360 Type 2D and 2F (688 Class)

C R NA UA PF
☐ Repeat
☐ Significant
☐ PMS

J. LIFTING GEAR

15. (D0B0) Is the periscope lifting eyes and support bars weight tested per tech manual 48 month requirement? (NA for 774 Class)

REF: (51, 52, & 54) Sheet 57 Note 4, Sheet 59, and Sheet 63
(Type 18 and 8B Periscopes)
NAVSEA Drawing 4398614 Rev U Sheet 6 Note: 38, Sheets
MIP 4251 SERIES MRC 48M-1

C R NA UA PF
☐ Repeat
☐ Significant
☐ PMS

K. CLOTHES DRYER

16. (E1F0) Is there a placard in the vicinity of the dryer stating procedures for preventing fires?

REF: Dryer fire sign NSN 0118-LF-981-6600
OPNAVINST 5100.19E D1402 g.8

C R NA UA PF
☐ Repeat
☐ Significant
☐ PMS

L. CLOTHES WASHER AND DRYERS

17. (E3A0) Are safety precautions and operating procedures posted in the vicinity of the washers and dryers?

REF: OPNAVINST 5100.19E D1402 f.7 & g.8

C R NA UA PF

☐ Repeat

☐ Significant

☐ PMS

M. WARNING TAG

18. (F1A0) Is a warning tag attached to each strobotac stating the requirement that strobotacs are not used for testing turbines or generators without a mechanical back-up instrument for speed verification?

REF: NSTM 491 491-2.7.1.3.g

NAVSEA 9491/2 (1-78) TAG

TAG NSN 0116-LF-000-7700

C R NA UA PF

☐ Repeat

☐ Significant

☐ PMS

N. BATTERY VENT HEATERS

19. (I1B0) Is a sign requiring battery well ventilation heaters to be secured prior to opening battery compartment hatch installed at access hatch? (SSN 688 class only)

REF: COMSUBLANT A&I N1456

C R NA UA PF

☐ Repeat

☐ Significant

☐ PMS

O. PERSONNEL PROTECTIVE EQUIPMENT

20. (I3A0) Are chemical goggles staged for use by personnel entering the battery well to handle electrolyte or when any battery cell is open?

REF: COMSUBLANT/COMSUBPACINST 5400.49 Article 4308.3.a(4)

NSTM 223 223-2.9.1.1 (Vol. 1)

NSTM 223 223-17.1.2 (Vol. 2)

NSN 4240-00-190-6432

NSN 4240-00-764-5152

C R NA UA PF

☐ Repeat

☐ Significant

☐ PMS

P. RED DEVIL BLOWER

21. (P5A0) Are the safety screens installed on the red devil blower? Are they in good repair?

REF: OPNAVINST 5100.19E D0804 a.(2) and b.(8)
inlet bell w/screen part #5001-3E-678 NSN 4140-01-204-2799
AEL 2-380044060
duct bell assembly part #5001-3E-12A NSN 4140-01-344-5368

C R NA UA PF

☐ Repeat

☐ Significant

☐ PMS

Q. TOTAL VOLTAGE PROBES

22. (P1A0) Are the finger guards in place for the total voltage probes on the ICV panel?

REF: Newport News DWG #4047-356 (SSN 688 CLASS)
(SSBN726 CLASS)NAVSEA DWG #4683397 Rev F
(SSN774 CLASS)EB DWG #87751-1521
Newport News DWG #DF 4047-1279
(SSN21 CLASS)NAVSEA DWG #7068079
(SSN21 CLASS) EB DWG #H751-1521
NAVSEA DWG #313-6404384

C R NA UA PF

☐ Repeat

☐ Significant

☐ PMS

SUB ELECTRICAL/ELECTRONIC

COMMAND NAME:

LOCATION:

UIC:

DATE:

SURVEYOR(S):

NO. COMPLETE:

NO. REQ ACTION:

NOT APPLICABLE:

Q #	Question	Result			Sig	Rep
1	2ESA1A0	C	R	N		
2	2ESA1A6	C	R	N		
3	2ESA1A7	C	R	N		
4	2ESA1A8	C	R	N		
5	2ESB1B1	C	R	N		
6	2ESB1C0	C	R	N		
7	2ESB1G0	C	R	N		
8	2ESB1H0	C	R	N		
9	2ESB1I0	C	R	N		
10	2ESB3B0	C	R	N		
11	2ESB3B1	C	R	N		
12	2ESC3A0	C	R	N		
13	2ESD0A0	C	R	N		
14	2ESD0B0	C	R	N		
15	2ESE1F0	C	R	N		
16	2ESE3A0	C	R	N		
17	2ESF1A0	C	R	N		
18	2ESI1B0	C	R	N		
19	2ESI3A0	C	R	N		
20	2ESK1E0	C	R	N		
21	2ESP1A0	C	R	N		
22	2ESP5A0	C	R	N		